

# SAFETY DATA SHEET

Issue Date 11-Feb-2015 Revision Date 23-Aug-2016 Version 2

# 1. IDENTIFICATION

Product identifier

Product Name Bostex 517

Other means of identification

Product Code BOSTEX 517 UN/ID no. UN3082

Synonyms Aqueous antioxidant dispersion

Recommended use of the chemical and restrictions on use

Recommended Use Latex Additive. Uses advised against None known

Details of the supplier of the safety data sheet

Supplier Address Akron Dispersions, Inc. 3291 Sawmill Road P.O. Box 4195 Akron, OH 44321

Emergency telephone number

Company Phone Number 330-666-0045

Emergency Telephone Chemtrec 1-800-424-9300 (Within USA and Canada), (+1) 703-741-5970 (Outside USA

and Canada)

### 2. HAZARDS IDENTIFICATION

#### Classification

### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label elements

# **Emergency Overview**

Appearance Aqueous solution Physical state Liquid Odor Ammoniacal

### Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful if swallowed

Unknown acute toxicity 0.66840375% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# <u>Substance</u>

**Synonyms** Aqueous antioxidant dispersion.

Chemical Name	CAS No.	Weight-%	Trade Secret
2,5-di-tert-pentylhydroquinone	79-74-3	45 - 55	*
Ammonium hydroxide	1336-21-6	0 - 0.1	*
Formaldehyde	50-00-0	0 - 0.004	*
Quinoline	91-22-5	0 - 0.004	*
Naphthalene	91-20-3	0 - 0.0015	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

Non-hazardous ingredients are proprietary and comprise the balance of the formulation.

# 4. FIRST AID MEASURES

# **Description of first aid measures**

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash off immediately with soap and plenty of water. If skin irritation persists, call a

physician.

**Inhalation** Remove to fresh air. If breathing is difficult seek medical attention.

**Ingestion** If on skin: Wash with plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause irritation to skin and eyes.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known.

# Specific hazards arising from the chemical

May cause irritation to skin and eyes.

Hazardous combustion products Oxides of carbon, nitrogen, sulfur and sodium.

# Explosion data

Sensitivity to Mechanical Impact No data available. Sensitivity to Static Discharge No data available.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal.

**Methods for cleaning up**Sweep, vacuum or shovel into appropriate container.

# 7. HANDLING AND STORAGE

Precautions for safe handling

**Advice on safe handling** Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a cool, dry area. Protect from freezing.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Formaldehyde	Ceiling: 0.3 ppm	TWA: 0.75 ppm	IDLH: 20 ppm
50-00-0		(vacated) TWA: 3 ppm unless	Ceiling: 0.1 ppm 15 min
		specified in 1910.1048	TWA: 0.016 ppm
		(vacated) STEL: 10 ppm 30 min	
		unless specified in 1910.1048	
		(vacated) Ceiling: 5 ppm unless	
		specified in 1910.1048	
		STEL: 2 ppm see 29 CFR	
		1910.1048	
Naphthalene	TWA: 10 ppm	TWA: 10 ppm	IDLH: 250 ppm
91-20-3	S*	TWA: 50 mg/m <sup>3</sup>	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 50 mg/m <sup>3</sup>
		(vacated) TWA: 50 mg/m <sup>3</sup>	STEL: 15 ppm
		(vacated) STEL: 15 ppm	STEL: 75 mg/m <sup>3</sup>
		(vacated) STEL: 75 mg/m <sup>3</sup>	-

#### **Appropriate engineering controls**

Engineering Controls Showers

Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

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**Respiratory protection** In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution Odor Ammoniacal

Color Cream to tan Odor threshold No information available

Property Values Remarks • Method

pH 9-11
Melting point/freezing point 0 deg C
Boiling point / boiling range 100 deg C

Flash point

Evaporation rate

Flammability (solid, gas)

No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Relative density
Water solubility
No information available
No information available
No information available
No information available
Miscible in water

Solubility in other solvents No information available Partition coefficient No information available No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive properties** No information available **Oxidizing properties** No information available

# **Other Information**

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information availableDensityNo information availableBulk densityNo information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

# Possibility of Hazardous Reactions

None under normal processing.

#### **Conditions to avoid**

Extremes of temperature and direct sunlight.

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#### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Oxides of carbon, nitrogen, sulfur and sodium.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Product Information No data available

**Inhalation** No data available.

Eye contact No data available.

Skin contact No data available.

**Ingestion** No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,5-di-tert-pentylhydroquinone 79-74-3	= 2 g/kg ( Rat )	-	-
Ammonium hydroxide 1336-21-6	= 350 mg/kg ( Rat )	-	-
Formaldehyde 50-00-0	= 100 mg/kg ( Rat )	= 270 mg/kg (Rabbit)	= 0.578 mg/L (Rat) 4 h
Quinoline 91-22-5	= 331 mg/kg ( Rat )	= 540 μL/kg (Rabbit)	-
Naphthalene 91-20-3	= 490 mg/kg ( Rat ) = 1110 mg/kg ( Rat )	> 20 g/kg ( Rabbit ) = 1120 mg/kg ( Rabbit )	> 340 mg/m <sup>3</sup> ( Rat ) 1 h

### Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Formaldehyde 50-00-0	A2	Group 1	Known	Х
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	Х

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.
No information available.

# Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document ...

ATEmix (oral) 4,172.00 mg/kg

# 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

# **Ecotoxicity**

50.12941 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ammonium hydroxide	-	8.2: 96 h Pimephales promelas	0.66: 48 h Daphnia pulex mg/L
1336-21-6		mg/L LC50	EC50 0.66: 48 h water flea mg/L
			EC50
Formaldehyde	-	0.032 - 0.226: 96 h Oncorhynchus	11.3 - 18: 48 h Daphnia magna
50-00-0		mykiss mL/L LC50 flow-through 100	mg/L EC50 Static 2: 48 h Daphnia
		- 136: 96 h Oncorhynchus mykiss	magna mg/L LC50
		mg/L LC50 static 22.6 - 25.7: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through 23.2 - 29.7: 96 h	
		Pimephales promelas mg/L LC50	
		static 1510: 96 h Lepomis	
		macrochirus μg/L LC50 static 41: 96	
		h Brachydanio rerio mg/L LC50	
		static	
Quinoline	84: 72 h Desmodesmus subspicatus	40: 96 h Poecilia reticulata mg/L	45.9 - 57.3: 48 h Daphnia magna
91-22-5	mg/L EC50 static 90: 96 h	LC50 static 46: 96 h Pimephales	mg/L EC50 Static 28.5: 48 h
	Desmodesmus subspicatus mg/L	promelas mg/L LC50 static 77.8: 96	Daphnia magna mg/L EC50
	EC50 static 51: 4 h	h Pimephales promelas mg/L LC50	
	Pseudokirchneriella subcapitata	flow-through	
	mg/L EC50		
Naphthalene	0.4: 72 h Skeletonema costatum	0.91 - 2.82: 96 h Oncorhynchus	1.09 - 3.4: 48 h Daphnia magna
91-20-3	mg/L EC50	mykiss mg/L LC50 static 5.74 - 6.44:	
		96 h Pimephales promelas mg/L	Daphnia magna mg/L EC50 Flow
		LC50 flow-through 1.6: 96 h	through 2.16: 48 h Daphnia magna
		Oncorhynchus mykiss mg/L LC50	mg/L LC50
		flow-through 1.99: 96 h Pimephales	
		promelas mg/L LC50 static 31.0265:	
		96 h Lepomis macrochirus mg/L	
		LC50 static	

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Formaldehyde 50-00-0	0.35
Quinoline 91-22-5	1.88 - 2.06
Naphthalene 91-20-3	3.3

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

**Disposal of wastes**Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging** Do not reuse container.

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Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Formaldehyde 50-00-0	U122	Included in waste streams: K009, K010, K038, K040,	-	U122
		K156, K157		
Naphthalene 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145	-	U165

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Naphthalene	-	-	Toxic waste	-
91-20-3			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free radical	
			catalyzed processes.	
			These chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

Chemical Name	California Hazardous Waste Status
Ammonium hydroxide	Toxic
1336-21-6	Corrosive
Formaldehyde	Toxic
50-00-0	Ignitable
Naphthalene	Toxic
91-20-3	

# 14. TRANSPORT INFORMATION

DOT

UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s. (2,5-di-tert-pentylhydroquinone)

Hazard Class 9
Packing Group III

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to DOT.

<u>IATA</u>

UN/ID no. UN3082

**Proper shipping name** Environmentally hazardous substances, liquid, n.o.s. (2,5-di-tert-pentylhydroquinone)

Hazard Class 9
Packing Group |||

**IMDG** 

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s. (2,5-di-tert-pentylhydroquinone)

Hazard Class 9
Packing Group III

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

# 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a toxic chemical in excess of 1% of the mixture (0.1% if a listed carcinogen) and is not subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	SARA 313 - Threshold Values %
Ammonium hydroxide - 1336-21-6	1.0
Formaldehyde - 50-00-0	0.1
Quinoline - 91-22-5	1.0
Naphthalene - 91-20-3	0.1

# SARA 311/312 Hazard Categories

Acute health hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium hydroxide 1336-21-6	1000 lb	-	-	X
Formaldehyde 50-00-0	100 lb	-	-	X
Quinoline 91-22-5	5000 lb	-	-	Х
Naphthalene 91-20-3	100 lb	Х	Х	Х

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium hydroxide	1000 lb	-	RQ 1000 lb final RQ
1336-21-6			RQ 454 kg final RQ
Formaldehyde	100 lb	100 lb	RQ 100 lb final RQ
50-00-0			RQ 45.4 kg final RQ
Quinoline	5000 lb	-	RQ 5000 lb final RQ
91-22-5			RQ 2270 kg final RQ

Naphthalene	100 lb 1 lb	-	RQ 100 lb final RQ
91-20-3			RQ 45.4 kg final RQ RQ 1 lb final
			RQ
			RQ 0.454 kg final RQ

# **US State Regulations**

#### **California Proposition 65**

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm

Chemical Name	California Proposition 65	
Formaldehyde - 50-00-0	Carcinogen	
Quinoline - 91-22-5	Carcinogen	
Naphthalene - 91-20-3	Carcinogen	

#### U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania		
Ammonium hydroxide	X	X	X		
1336-21-6					
Formaldehyde 50-00-0	X	X	X		
Quinoline 91-22-5	X	Х	Х		
Naphthalene 91-20-3	X	Х	Х		

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 1 Flammability 0 Instability 0 Physical and Chemical Properties -

HMIS Health hazards 1 Flammability 0 Physical hazards 0 Personal protection B

Prepared ByDiane M. HunsickerIssue Date11-Feb-2015Revision Date23-Aug-2016

**Revision Note** 

SDS sections updated: 1, 14

#### Disclaimer

The information provided in this SDS was compiled from sources which we believe are accurate and reliable. However, this information is provided without warranty, expressed or implied, regarding its correctness. It is the user's responsibility to determine the suitability of any material for a specific purpose and adopt such safety precautions as may be necessary. We do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of, or in any way connected with the handling, storage, use, or disposal of this product.

**End of Safety Data Sheet**